Niyazi S Sariciftci

List of Publications by Year
in descending order

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593 papers	57,438 citations	1704 104 h-index	1254 226 g-index
618 all docs	618 docs citations	618 times ranked	33555 citing authors

#	Article	IF	Citations
1	Conjugated Polymer-Based Organic Solar Cells. Chemical Reviews, 2007, 107, 1324-1338.	47.7	5,925
2	Photoinduced Electron Transfer from a Conducting Polymer to Buckminsterfullerene. Science, 1992, 258, 1474-1476.	12.6	4,037
3	2.5% efficient organic plastic solar cells. Applied Physics Letters, 2001, 78, 841-843.	3.3	2,520
4	Organic solar cells: An overview. Journal of Materials Research, 2004, 19, 1924-1945.	2.6	2,242
5	Effects of Postproduction Treatment on Plastic Solar Cells. Advanced Functional Materials, 2003, 13, 85-88.	14.9	1,944
6	Ultrathin and lightweight organic solar cells with high flexibility. Nature Communications, 2012, 3, 770.	12.8	1,452
7	Morphology of polymer/fullerene bulk heterojunction solar cells. Journal of Materials Chemistry, 2006, 16, 45-61.	6.7	1,341
8	Organic solar cells with carbon nanotube network electrodes. Applied Physics Letters, 2006, 88, 233506.	3.3	936
9	Semiconducting polymerâ€buckminsterfullerene heterojunctions: Diodes, photodiodes, and photovoltaic cells. Applied Physics Letters, 1993, 62, 585-587.	3.3	887
10	Efficiency of bulk-heterojunction organic solar cells. Progress in Polymer Science, 2013, 38, 1929-1940.	24.7	881
11	Effect of LiF/metal electrodes on the performance of plastic solar cells. Applied Physics Letters, 2002, 80, 1288-1290.	3.3	879
12	Ultrathin, highly flexible and stretchable PLEDs. Nature Photonics, 2013, 7, 811-816.	31.4	832
13	Flexible high power-per-weight perovskite solar cells with chromium oxideâ€“metal contacts for improved stability in air. Nature Materials, 2015, 14, 1032-1039.	27.5	807
14	Nanoscale Morphology of Conjugated Polymer/Fullerene-Based Bulk- Heterojunction Solar Cells. Advanced Functional Materials, 2004, 14, 1005-1011.	14.9	702
15	Low bandgap polymers for photon harvesting in bulk heterojunction solar cells. Journal of Materials Chemistry, 2004, 14, 1077.	6.7	667
16	Tracing photoinduced electron transfer process in conjugated polymer/fullerene bulk heterojunctions in real time. Chemical Physics Letters, 2001, 340, 232-236.	2.6	563
17	A Low-Bandgap Semiconducting Polymer for Photovoltaic Devices and Infrared Emitting Diodes. Advanced Functional Materials, 2002, 12, 709-712.	14.9	517
18	A review of charge transport and recombination in polymer/fullerene organic solar cells. Progress in Photovoltaics: Research and Applications, 2007, 15, 677-696.	8.1	515

#	Article	IF	Citations
19	Green and biodegradable electronics. Materials Today, 2012, 15, 340-346.	14.2	389
20	Biocompatible and Biodegradable Materials for Organic Fieldâ€Effect Transistors. Advanced Functional Materials, 2010, 20, 4069-4076.	14.9	387
21	Indigo â€•A Natural Pigment for High Performance Ambipolar Organic Field Effect Transistors and Circuits. Advanced Materials, 2012, 24, 375-380.	21.0	383
22	Effects of Annealing on the Nanomorphology and Performance of Poly(alkylthiophene):Fullerene Bulk-Heterojunction Solar Cells. Advanced Functional Materials, 2007, 17, 1071-1078.	14.9	360
23	Material Solubilityâ€Photovoltaic Performance Relationship in the Design of Novel Fullerene Derivatives for Bulk Heterojunction Solar Cells. Advanced Functional Materials, 2009, 19, 779-788.	14.9	355
24	Influence of the solvent on the crystal structure of PCBM and the efficiency of MDMO-PPV:PCBM â€˜plasticâ€™ solar cells. Chemical Communications, 2003, , 2116-2118.	4.1	324
25	Organic p-i-n solar cells. Applied Physics A: Materials Science and Processing, 2004, 79, 1-14.	2.3	308
26	Bimolecular Recombination Coefficient as a Sensitive Testing Parameter for Low-Mobility Solar-Cell Materials. Physical Review Letters, 2005, 94, 176806.	7.8	297
27	Kelvin Probe Force Microscopy Study on Conjugated Polymer/Fullerene Bulk Heterojunction Organic Solar Cells. Nano Letters, 2005, 5, 269-274.	9.1	281
28	Photoexcitation spectroscopy of conducting-polymerâ€“C60composites: Photoinduced electron transfer. Physical Review B, 1993, 47, 13835-13842.	3.2	280
29	Hybrid solar cells. Inorganica Chimica Acta, 2008, 361, 581-588.	2.4	279
30	Hybrid Solar Cells Based on Nanoparticles of CuInS2 in Organic Matrices. Advanced Functional Materials, 2003, 13, 165-171.	14.9	270
31	Current versus gate voltage hysteresis in organic field effect transistors. Monatshefte FÃ¼r Chemie, 2009, 140, 735-750.	1.8	269
32	Hydrogen-bonds in molecular solids â€“ from biological systems to organic electronics. Journal of Materials Chemistry B, 2013, 1, 3742.	5.8	264
33	Stability and photodegradation mechanisms of conjugated polymer/fullerene plastic solar cells. Solar Energy Materials and Solar Cells, 2000, 61, 35-42.	6.2	254
34	Double-cable polymers for fullerene based organic optoelectronic applications. Journal of Materials Chemistry, 2002, 12, 1931-1943.	6.7	249
35	Charge carrier mobility in regioregular poly(3-hexylthiophene) probed by transient conductivity techniques: A comparative study. Physical Review B, 2005, 71, .	3.2	249
36	Synthesis, Photophysical Properties, and Photovoltaic Devices of Oligo(p-phenylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (vinyler	2.6	242

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37	High performance n-channel organic field-effect transistors and ring oscillators based on C60 fullerene films. Applied Physics Letters, 2006, 89, 213504.	3.3	239
38	A new encapsulation solution for flexible organic solar cells. Thin Solid Films, 2006, 511-512, 349-353.	1.8	238
39	Sensitization of the photoconductivity of conducting polymers byC60: Photoinduced electron transfer. Physical Review B, 1993, 48, 15425-15433.	3.2	225
40	PROGRESS IN PLASTIC ELECTRONICS DEVICES. Annual Review of Materials Research, 2006, 36, 199-230.	9.3	224
41	Stabilization of the nanomorphology of polymerâ€“fullerene â€œbulk heterojunctionâ€•blends using a novel polymerizable fullerene derivative. Journal of Materials Chemistry, 2005, 15, 5158.	6.7	221
42	Hydrogenâ€Bonded Semiconducting Pigments for Airâ€Stable Fieldâ€Effect Transistors. Advanced Materials, 2013, 25, 1563-1569.	21.0	218
43	High-Performance Ambipolar Pentacene Organic Field-Effect Transistors on Poly(vinyl alcohol) Organic Gate Dielectric. Advanced Materials, 2005, 17, 2315-2320.	21.0	215
44	Nonvolatile organic field-effect transistor memory element with a polymeric gate electret. Applied Physics Letters, 2004, 85, 5409-5411.	3.3	213
45	Long-lived photoinduced charge separation for solar cell applications in phthalocyanineâ€“fulleropyrrolidine dyad thin filmsElectronic supplementary information (ESI) available: plots of the refractive index, extinction coefficient and dielectric function of Pc-C60. See http://www.rsc.org/suppdata/jm/b2/b212621d/. Journal of Materials Chemistry, 2003, 13, 700-704.	6.7	210
46	Time-dependent mobility and recombination of the photoinduced charge carriers in conjugated polymer/fullerene bulk heterojunction solar cells. Physical Review B, 2005, 72, .	3.2	209
47	Charge Recombination in Conjugated Polymer/Fullerene Blended Films Studied by Transient Absorption Spectroscopy. Journal of Physical Chemistry B, 2003, 107, 1567-1573.	2.6	197
48	Hybrid solar cells using PbS nanoparticles. Solar Energy Materials and Solar Cells, 2007, 91, 420-423.	6.2	194
49	Extended Photocurrent Spectrum of a Low Band Gap Polymer in a Bulk Heterojunction Solar Cell. Chemistry of Materials, 2005, 17, 4031-4033.	6.7	193
50	25th Anniversary Article: Progress in Chemistry and Applications of Functional Indigos for Organic Electronics. Advanced Materials, 2013, 25, 6783-6800.	21.0	191
51	Transient optical studies of charge recombination dynamics in a polymer/fullerene composite at room temperature. Applied Physics Letters, 2002, 81, 3001-3003.	3.3	189
52	Highly Anisotropically Self-Assembled Structures ofpara-Sexiphenyl Grown by Hot-Wall Epitaxy. Advanced Materials, 2000, 12, 629-633.	21.0	186
53	Temperature dependence for the photovoltaic device parameters of polymer-fullerene solar cells under operating conditions. Journal of Applied Physics, 2001, 90, 5343-5350.	2.5	184
54	Charge transport and recombination in bulk heterojunction solar cells studied by the photoinduced charge extraction in linearly increasing voltage technique. Applied Physics Letters, 2005, 86, 112104.	3.3	184

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55	Ultrafast spectroscopic studies of photoinduced electron transfer from semiconducting polymers toC60. Physical Review B, 1994, 50, 18543-18552.	3.2	179
56	Influence of the Anodic Work Function on the Performance of Organic Solar Cells. ChemPhysChem, 2002, 3, 795-799.	2.1	176
57	Modeling the optical absorption within conjugated polymer/fullerene-based bulk-heterojunction organic solar cells. Solar Energy Materials and Solar Cells, 2003, 80, 105-113.	6.2	173
58	Polymerâ€“Fullerene Bulk Heterojunction Solar Cells. MRS Bulletin, 2005, 30, 33-36.	3.5	171
59	Structural and electronic transitions in polyaniline: A Fourier transform infrared spectroscopic study. Journal of Chemical Physics, 1990, 92, 4530-4539.	3.0	170
60	Hybrid solar cells based on dye-sensitized nanoporous TiO2 electrodes and conjugated polymers as hole transport materials. Synthetic Metals, 2001, 125, 279-287.	3.9	166
61	Subpicosecond photoinduced electron transfer from conjugated polymers to functionalized fullerenes. Journal of Chemical Physics, 1996, 104, 4267-4273.	3.0	165
62	Flexible, conjugated polymer-fullerene-based bulk-heterojunction solar cells: Basics, encapsulation, and integration. Journal of Materials Research, 2005, 20, 3224-3233.	2.6	165
63	Photoresponse of organic field-effect transistors based on conjugated polymer/fullerene blends. Organic Electronics, 2006, 7, 188-194.	2.6	165
64	REVERSIBLE, METASTABLE, ULTRAFAST PHOTOINDUCED ELECTRON TRANSFER FROM SEMICONDUCTING POLYMERS TO BUCKMINSTERFULLERENE AND IN THE CORRESPONDING DONOR/ACCEPTOR HETEROJUNCTIONS. International Journal of Modern Physics B, 1994, 08, 237-274.	2.0	164
65	Ultrafast photoinduced electron transfer in conducting polymerâ€”buckminsterfullerene composites. Chemical Physics Letters, 1993, 213, 389-394.	2.6	161
66	Charge carrier mobility and lifetime versus composition of conjugated polymer/fullerene bulk-heterojunction solar cells. Organic Electronics, 2006, 7, 229-234.	2.6	161
67	Effect of annealing of poly(3-hexylthiophene)/fullerene bulk heterojunction composites on structural and optical properties. Thin Solid Films, 2006, 496, 679-682.	1.8	161
68	Enhanced spectral coverage in tandem organic solar cells. Applied Physics Letters, 2006, 89, 073502.	3.3	160
69	Exotic materials for bio-organic electronics. Journal of Materials Chemistry, 2011, 21, 1350-1361.	6.7	157
70	Vibrational signatures of electrochemical p- and n-doping of poly(3,4-ethylenedioxythiophene) films: an in situ attenuated total reflection Fourier transform infrared (ATR-FTIR) study. Journal of Molecular Structure, 2000, 521, 271-277.	3.6	153
71	Processable Multipurpose Conjugated Polymer for Electrochromic and Photovoltaic Applications. Chemistry of Materials, 2010, 22, 2978-2987.	6.7	153
72	Tripletâ€state photoexcitations of oligothiophene films and solutions. Journal of Chemical Physics, 1994, 101, 1787-1798.	3.0	151

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73	Photoinduced charge carriers in conjugated polymerâ€“fullerene composites studied with light-induced electron-spin resonance. Physical Review B, 1999, 59, 8019-8025.	3.2	150
74	Flexible Conjugated Polymer-Based Plastic Solar Cells: From Basics to Applications. Proceedings of the IEEE, 2005, 93, 1429-1439.	21.3	149
75	The influence of materials work function on the open circuit voltage of plastic solar cells. Thin Solid Films, 2002, 403-404, 368-372.	1.8	147
76	Negative electric field dependence of charge carrier drift mobility in conjugated, semiconducting polymers. Chemical Physics Letters, 2004, 389, 438-442.	2.6	146
77	Photovoltaic properties of conjugated polymer/methanofullerene composites embedded in a polystyrene matrix. Journal of Applied Physics, 1999, 85, 6866-6872.	2.5	142
78	Efficiency limiting morphological factors of MDMO-PPV:PCBM plastic solar cells. Thin Solid Films, 2006, 511-512, 587-592.	1.8	140
79	Photoinduced charge and energy transfer involving fullerene derivatives. Photochemical and Photobiological Sciences, 2006, 5, 1122.	2.9	138
80	Fabrication and characterization of solution-processed methanofullerene-based organic field-effect transistors. Journal of Applied Physics, 2005, 97, 083714.	2.5	137
81	The interplay of efficiency and morphology in photovoltaic devices based on interpenetrating networks of conjugated polymers with fullerenes. Synthetic Metals, 2001, 118, 1-9.	3.9	134
82	Bio-organic-semiconductor-field-effect-transistor based on deoxyribonucleic acid gate dielectric. Journal of Applied Physics, 2006, 100, 024514.	2.5	131
83	Indigo and Tyrian Purple â€“ From Ancient Natural Dyes to Modern Organic Semiconductors. Israel Journal of Chemistry, 2012, 52, 540-551.	2.3	130
84	High-mobility n-channel organic field-effect transistors based on epitaxially grown C60 films. Organic Electronics, 2005, 6, 105-110.	2.6	129
85	Environmentally sustainable organic field effect transistors. Organic Electronics, 2010, 11, 1974-1990.	2.6	129
86	Realization of large area flexible fullerene â€” conjugated polymer photocells: A route to plastic solar cells. Synthetic Metals, 1999, 102, 861-864.	3.9	122
87	Ultrafast dynamics of charge carrier photogeneration and geminate recombination in conjugated polymer:fullerene solar cells. Physical Review B, 2005, 72, .	3.2	122
88	Negative capacitance in organic semiconductor devices: Bipolar injection and charge recombination mechanism. Applied Physics Letters, 2007, 91, .	3.3	122
89	Influence of processing additives to nano-morphology and efficiency of bulk-heterojunction solar cells: A comparative review. Solar Energy, 2011, 85, 1226-1237.	6.1	122
90	Optical and electronic properties of mixed halide (X = I, Cl, Br) methylammonium lead perovskite solar cells. Journal of Materials Chemistry C, 2017, 5, 1714-1723.	5.5	120

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91	Semiconducting polymers (as donors) and buckminsterfullerene (as acceptor): photoinduced electron transfer and heterojunction devices. Synthetic Metals, 1993, 59, 333-352.	3.9	119
92	Role of Buckminsterfullerene, C60, in organic photoelectric devices. Progress in Quantum Electronics, 1995, 19, 131-159.	7.0	118
93	Patterns of efficiency and degradation of composite polymer solar cells. Solar Energy Materials and Solar Cells, 2004, 83, 247-262.	6.2	118
94	Anthracene Based Conjugated Polymers: Correlation between Ï€â^Ï€-Stacking Ability, Photophysical Properties, Charge Carrier Mobility, and Photovoltaic Performance. Macromolecules, 2010, 43, 1261-1269.	4.8	117
95	Absorption-detected magnetic-resonance studies of photoexcitations in conjugated-polymer/C60composites. Physical Review B, 1996, 53, 2187-2190.	3.2	116
96	Temperature dependence of the charge carrier mobility in disordered organic semiconductors at large carrier concentrations. Physical Review B, 2010, 81, .	3.2	116
97	Hydrogenâ€Bonded Organic Semiconductors as Stable Photoelectrocatalysts for Efficient Hydrogen Peroxide Photosynthesis. Advanced Functional Materials, 2016, 26, 5248-5254.	14.9	115
98	Photovoltaic action of conjugated polymer/fullerene bulk heterojunction solar cells using novel PPE-PPV copolymers. Journal of Materials Chemistry, 2004, 14, 3462-3467.	6.7	114
99	Soluble derivatives of perylene and naphthalene diimide for n-channel organic field-effect transistors. Organic Electronics, 2006, 7, 480-489.	2.6	113
100	Organic field-effect transistors and memory elements using deoxyribonucleic acid (DNA) gate dielectric. Organic Electronics, 2007, 8, 648-654.	2.6	112
101	Low Band Gap Conjugated Semiconducting Polymers. Advanced Materials Technologies, 2021, 6, 2000857.	5.8	112
102	Direct Electrical Neurostimulation with Organic Pigment Photocapacitors. Advanced Materials, 2018, 30, e1707292.	21.0	109
103	Bio-organic field effect transistors based on crosslinked deoxyribonucleic acid (DNA) gate dielectric. Applied Physics Letters, 2009, 95, .	3.3	106
104	Paramagnetic susceptibility of highly conducting polyaniline: Disordered metal with weak electron-electron interactions (Fermi glass). Physical Review B, 1994, 49, 5988-5992.	3.2	105
105	Enhanced nonlinear absorption and optical limiting in semiconducting polymer/methanofullerene charge transfer films. Applied Physics Letters, 1995, 67, 3850-3852.	3.3	105
106	Molecular Engineering of C60-Based Conjugated Oligomer Ensembles:Â Modulating the Competition between Photoinduced Energy and Electron Transfer Processes. Journal of Organic Chemistry, 2002, 67, 1141-1152.	3.2	105
107	Random laser action in self-organized para-sexiphenyl nanofibers grown by hot-wall epitaxy. Applied Physics Letters, 2004, 84, 4454-4456.	3.3	103
108	Mobile Ionic Impurities in Poly(vinyl alcohol) Gate Dielectric: Possible Source of the Hysteresis in Organic Fieldâ€Effect Transistors. Advanced Materials, 2008, 20, 1018-1022.	21.0	103

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109	Confining metal-halide perovskites in nanoporous thin films. Science Advances, 2017, 3, e1700738.	10.3	103
110	Plastic photovoltaic devices. Materials Today, 2004, 7, 36-40.	14.2	102
111	Anodized Aluminum Oxide Thin Films for Roomâ€Temperatureâ€Processed, Flexible, Lowâ€Voltage Organic Nonâ€Volatile Memory Elements with Excellent Charge Retention. Advanced Materials, 2011, 23, 4892-4896.	21.0	102
112	Dependence of field-effect hole mobility of PPV-based polymer films on the spin-casting solvent. Organic Electronics, 2002, 3, 105-110.	2.6	101
113	A flexible textile structure based on polymeric photovoltaics using transparent cathode. Synthetic Metals, 2009, 159, 2043-2048.	3.9	101
114	A novel polythiophene with pendant fullerenes: toward donor/acceptor double-cable polymers. Chemical Communications, 2000, , 2487-2488.	4.1	100
115	Photoinduced electron transfer and long lived charge separation in a donor-bridge-acceptor supramolecular â€˜diadâ€™ consisting of ruthenium(II) tris(bipyridine) functionalized C60. Chemical Physics Letters, 1995, 247, 510-514.	2.6	99
116	Natural resin shellac as a substrate and a dielectric layer for organic field-effect transistors. Green Chemistry, 2013, 15, 1473.	9.0	99
117	Hydrogen-bonded diketopyrrolopyrrole (DPP) pigments as organic semiconductors. Organic Electronics, 2014, 15, 3521-3528.	2.6	99
118	Photovoltaic enhancement of organic solar cells by a bridged donor-acceptor block copolymer approach. Applied Physics Letters, 2007, 90, 043117.	3.3	97
119	A self-rechargeable and flexible polymer solar battery. Solar Energy, 2007, 81, 947-957.	6.1	97
120	Surface morphology, optical properties and conductivity changes of poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) by using additives. Thin Solid Films, 2013, 536, 211-215.	1.8	97
121	Substituting the postproduction treatment for bulk-heterojunction solar cells using chemical additives. Organic Electronics, 2008, 9, 775-782.	2.6	95
122	Direct evidence of photoinduced electron transfer in conducting-polymerâ€“C60composites by infrared photoexcitation spectroscopy. Physical Review B, 1994, 49, 5781-5784.	3.2	94
123	Organic inverter circuits employing ambipolar pentacene field-effect transistors. Applied Physics Letters, 2006, 89, 033512.	3.3	93
124	The effects of CdSe incorporation into bulk heterojunction solar cells. Journal of Materials Chemistry, 2010, 20, 4845.	6.7	89
125	Intermolecular hydrogen-bonded organic semiconductorsâ€”Quinacridone versus pentacene. Applied Physics Letters, 2012, 101, .	3.3	89
126	Biofunctionalized conductive polymers enable efficient CO ₂ electroreduction. Science Advances, 2017, 3, e1700686.	10.3	89

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127	Novel Regiospecific MDMOâˆ’PPV Copolymer with Improved Charge Transport for Bulk Heterojunction Solar Cells. Journal of Physical Chemistry B, 2004, 108, 5235-5242.	2.6	86
128	Advanced photon-harvesting concepts for low-energy gap organic solar cells. Solar Energy Materials and Solar Cells, 2007, 91, 986-995.	6.2	86
129	Polymeric photovoltaic materials. Current Opinion in Solid State and Materials Science, 1999, 4, 373-378.	11.5	85
130	4% Efficient Polymer Solar Cells on Paper Substrates. Journal of Physical Chemistry C, 2014, 118, 16813-16817.	3.1	85
131	Conjugated polymer photovoltaic devices and materials. Comptes Rendus Chimie, 2006, 9, 568-577.	0.5	84
132	Modeling of optical absorption in conjugated polymer/fullerene bulk-heterojunction plastic solar cells. Thin Solid Films, 2004, 451-452, 589-592.	1.8	83
133	Electrochemical and Photophysical Properties of a Novel Polythiophene with Pendant Fulleropyrrolidine Moieties:â€‰ Toward â€œDouble Cableâ€•Polymers for Optoelectronic Devices. Journal of Physical Chemistry B, 2002, 106, 70-76.	2.6	81
134	Solid-state organic/inorganic hybrid solar cells based on conjugated polymers and dye-sensitized TiO2 electrodes. Thin Solid Films, 2002, 403-404, 271-274.	1.8	81
135	Low band-gap polymeric photovoltaic devices. Synthetic Metals, 2001, 121, 1583-1584.	3.9	80
136	Characterization of N, Nâ€²-bis-2-(1-hydoxy-4-methylpentyl)-3, 4, 9, 10-perylene bis (dicarboximide) sensitized nanocrystalline TiO2 solar cells with polythiophene hole conductors. Solar Energy Materials and Solar Cells, 2005, 88, 11-21.	6.2	79
137	Electrochemical Reduction of Carbon Dioxide to Methanol by Direct Injection of Electrons into Immobilized Enzymes on a Modified Electrode. ChemSusChem, 2016, 9, 631-635.	6.8	79
138	Sensitization of low bandgap polymer bulk heterojunction solar cells. Thin Solid Films, 2002, 403-404, 373-379.	1.8	78
139	Ambipolar organic field effect transistors and inverters with the natural material Tyrian Purple. AIP Advances, 2011, 1, .	1.3	78
140	Electron and energy transfer processes of photoexcited oligothiophenes onto tetracyanoethylene and C60. Journal of Chemical Physics, 1994, 101, 9519-9527.	3.0	77
141	Hybrid solar cells based on inorganic nanoclusters and conjugated polymers. Thin Solid Films, 2004, 451-452, 612-618.	1.8	76
142	Degradation of bulk heterojunction solar cells operated in an inert gas atmosphere: a systematic study. Synthetic Metals, 2001, 121, 1605-1606.	3.9	75
143	A comparison between state-of-the-art â€˜gilchâ€™ and â€˜sulphinylâ€™ synthesised MDMO-PPV/PCBM bulk hetero-junction solar cells. Thin Solid Films, 2002, 403-404, 247-251.	1.8	75
144	Hydrogen-Bonded Organic Semiconductor Micro- And Nanocrystals: From Colloidal Syntheses to (Opto-)Electronic Devices. Journal of the American Chemical Society, 2014, 136, 16522-16532.	13.7	75

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145	Correlation of crystalline and structural properties of C60 thin films grown at various temperature with charge carrier mobility. Applied Physics Letters, 2007, 90, 213512.	3.3	72
146	Charge Carrier Lifetime and Recombination in Bulk Heterojunction Solar Cells. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1746-1758.	2.9	72
147	Side Chain Influence on Electrochemical and Photovoltaic Properties of Yne-Containing Poly(phenylene vinylene)s. Macromolecular Rapid Communications, 2005, 26, 1389-1394.	3.9	71
148	Evidence for Two Separate Doping Mechanisms in the Polyaniline System. Physical Review Letters, 1988, 60, 212-215.	7.8	70
149	Rhodium-Coordinated Poly(arylene-ethynylene)-alt-Poly(arylene-vinylene) Copolymer Acting as Photocatalyst for Visible-Light-Powered NAD⁺/NADH Reduction. Journal of the American Chemical Society, 2014, 136, 12721-12729.	13.7	70
150	Hybrid Solar Cells Using HgTe Nanocrystals and Nanoporous TiO2 Electrodes. Advanced Functional Materials, 2006, 16, 1095-1099.	14.9	69
151	Solution processed perovskite solar cells using highly conductive PEDOT:PSS interfacial layer. Solar Energy Materials and Solar Cells, 2016, 157, 318-325.	6.2	69
152	Infrared reflectance of polypyrrole: â€˜metalâ€™ with a gap in the spectrum of charged excitations. Synthetic Metals, 1995, 68, 287-291.	3.9	68
153	In situ ftir spectroelectrochemical characterization of poly(3,4-ethylenedioxythiophene) films. Synthetic Metals, 1999, 101, 66.	3.9	68
154	Organic photovoltaic devices produced from conjugated polymer / methanofullerene bulk heterojunctions. Synthetic Metals, 2001, 121, 1517-1520.	3.9	68
155	Photoinduced Electron Transfer in a New Bis(C60)â^'Phthalocyanine Triad. Organic Letters, 2006, 8, 5187-5190.	4.6	67
156	Fluoreneâ€Carbazole Dendrimers: Synthesis, Thermal, Photophysical and Electroluminescent Device Properties. Advanced Functional Materials, 2010, 20, 4152-4161.	14.9	67
157	Photoinduced electron transfer from Ï€â€conjugated polymers onto Buckminsterfullerene, fulleroids, and methanofullerenes. Journal of Chemical Physics, 1995, 103, 788-793.	3.0	66
158	Photoinduced electron transfer reactions in mixed films of Ï€â€conjugated polymers and a homologous series of tetracyanoâ€pâ€quinodimethane derivatives. Journal of Chemical Physics, 1995, 103, 8840-8845.	3.0	65
159	Complexation of pyrrolidinofullerenes and zinc-phthalocyanine in a bilayer organic solar cell structure. Applied Physics Letters, 2005, 87, 244102.	3.3	65
160	Heteroepitaxial growth of self-assembled highly ordered para-sexiphenyl films: â€ƒA crystallographic study. Physical Review B, 2001, 64, .	3.2	64
161	A facile protectionâ€“deprotection route for obtaining indigo pigments as thin films and their applications in organic bulk heterojunctions. Chemical Communications, 2013, 49, 6063.	4.1	64
162	Direct Electrochemical Capture and Release of Carbon Dioxide Using an Industrial Organic Pigment: Quinacridone. Angewandte Chemie - International Edition, 2014, 53, 6819-6822.	13.8	64

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163	Biocatalytic and Bioelectrocatalytic Approaches for the Reduction of Carbon Dioxide using Enzymes. Energy Technology, 2017, 5, 812-821.	3.8	64
164	Vacuum-processed polyethylene as a dielectric for low operating voltage organic field effect transistors. Organic Electronics, 2012, 13, 919-924.	2.6	63
165	Nanofibrous cobalt oxide for electrocatalysis of CO2 reduction to carbon monoxide and formate in an acetonitrile-water electrolyte solution. Applied Catalysis B: Environmental, 2018, 229, 163-170.	20.2	63
166	Photoinduced electron transfer processes in oligothiophene/C60 composite films. Journal of Chemical Physics, 1995, 102, 2628-2635.	3.0	62
167	New Donorâ€“Acceptor Materials Based on Random Polynorbornenes Bearing Pendant Phthalocyanine and Fullerene Units. Chemistry - an Asian Journal, 2006, 1, 148-154.	3.3	61
168	Synthesis of poly(2,5-Thienylene Vinylene) and its derivatives: Low band gap materials for photovoltaics. Thin Solid Films, 2008, 516, 3978-3988.	1.8	61
169	Synthesis and Characterization of a Poly(1,3-dithienylisothianaphthene) Derivative for Bulk Heterojunction Photovoltaic Cells. Journal of Physical Chemistry B, 2001, 105, 11106-11113.	2.6	60
170	Molecules as bipolar conductors. Nature Materials, 2003, 2, 360-361.	27.5	60
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